

Product Datasheet

Oxyphenbutazone

Catalog No. **BP-02167** · CAS **129-20-4** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-04**

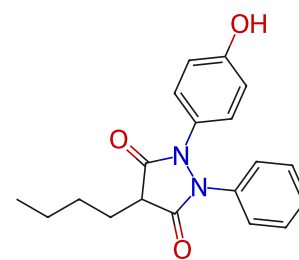
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Target COX; Bacterial	Research area Infection; Inflammation/Immunology
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Molecular formula **C₁₉H₂₀N₂O₃**

Molecular weight **324.3737**

STRUCTURE



DESCRIPTION

Oxyphenbutazone is a Phenylbutazone metabolite, with anti-inflammatory effect. Oxyphenbutazone is an orally active non-selective COX inhibitor. Oxyphenbutazone selectively kills non-replicating Mycobacterium tuberculosis. In Vivo

Oxyphenbutazone (70 mg/kg/week; p.o.; in two divided doses; for 13 weeks) exerts potential anticancer activity when co-treatment with MTX (5.0 or 2.5 mg/kg/week; i.p.).

BIOLOGICAL ACTIVITY

In Vitro

Oxyphenbutazone enhances the anticancer efficiency of Methotrexate (MTX) (HY-14519) in Hep3B cells[1].

Oxyphenbutazone (2.5-7.5 μM; 48 hours) co-treatment with (MTX, 0.25-1.0 μM) shows potential cytotoxicity against Hep3B cells.

Oxyphenbutazone exhibits reparative effects in the hepatocytes.

SOLUBILITY

Soluble in DMSO : 100 mg/mL

REFERENCES

[1]. Saleem S, et al. Oxyphenbutazone promotes cytotoxicity in rats and Hep3B cells via suppression of PGE2 and deactivation of Wnt/β-catenin signaling pathway. Mol Cell Biochem. 2018 Jul;444(1-2):187-196.

[2]. Gold B, et al. Nonsteroidal anti-inflammatory drug sensitizes Mycobacterium tuberculosis to endogenous and exogenous antimicrobials. Proc Natl Acad Sci U S A. 2012 Oct 2;109(40):16004-11.

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